



SYNTHETIC TRACK SURFACING- REKORTAN® G-10 Fast Track - FULL POUR WITH AN ALIPHATIC FINISH SPECIFICATION

PART 1- GENERAL

1.01 SUMMARY

- A. The contract work to be performed under this section consists of furnishing all required labor, materials, equipment, implements, parts and supplies necessary for, the surfacing in accordance with these specifications and indicated on the drawings.
 - 1. Rekortan® G-10 Fast Track – A 2-layer, dual durometer, 10mm impermeable full pour track system. It consists of a renewable Rekortan® gel polyurethane base layer and a fluid applied, self-leveling full pour polyurethane with a dense matrix of EPDM rubber granules with an aliphatic top coat. The minimum depth of the system shall be 10mm with the depth of the top-wearing layer a minimum of 4mm.

1.02 CODES AND STANDARDS

- A. Codes and standards follow the current guidelines set forth by the World Athletics (WA), the National Collegiate Athletic Association (NCAA) or the National Federation of State High School Associations (NFHS).

1.03 SUBMITTALS AND SUBSTITUTIONS

- A. Request for deviations or substitutions from the specifications must be made in writing seven days prior to the bid date. Complete product data including specifications, application rates, mixing instructions and a sample shall be sent with the request to the district and/or its agent for an evaluation. Alternatives will be allowed only by addendum.
 - 1. Submit a set of the manufacturer's product data sheets including installation guidelines and maintenance guidelines.
 - 2. Submit a track sample that is representative of the product being installed.
 - 3. Submit Safety Data Sheets (SDS) for all individual components of the product being installed.

1.04 QUALITY ASSURANCE

- A. The track surface installer shall be authorized by Manufacturer and possess a minimum of five (5) years' experience of installing Rekortan® systems.
- B. The supervisor, of the installing company, must have five (5) years' experience surfacing Rekortan® systems and must have installed a minimum of ten (10) World Athletics approved track systems within the last three (3) years.
- C. The manufacturer must offer a minimum of four (4) World Athletics certified track systems.
- D. Submit evidence that the synthetic surfacing contractor is a member of the American Sports Builders Association (ASBA).
- E. All material components must be procured from manufacturer from, a single source. No substitutes allowed without written approval from manufacturer.



F. All polyurethanes used must be manufactured by an ISO 9001 and ISO 14001 Certified Company. Manufacturer's ISO 9001 and ISO 14001 certificate must accompany bid.

1.05 SITE CONDITIONS

- A. Weather: Surfacing shall not begin if rain is imminent, if gusting winds are occurring or when the threat of freezing exists within 24 hours.
- B. Site: During any surfacing and striping, sprinkler systems must be shut off or controlled so that no water falls on the track or event area surfaces. Other trades and school district personnel must stay off the wet or curing surface.
- C. Only mix and apply when meeting manufactures recommended guidelines.
- D. The General Contractor shall provide temporary barriers as required to prevent public entry to construction area and to protect adjacent properties from damage during construction operation.

1.06 WARRANTY

- A. Provide manufacturers standard five (5) year warranty

PART 2- PRODUCTS

2.01 SUPPLIER

Advanced Polymer Technology
109 Conica Lane / PO Box 160
Harmony, PA 16037
724-452-1330

2.02 MATERIALS

- A. Rekortan® G-10 Fast Track Running Track Surface: A two-layer, dual durometer, full pour track surface, consisting of a 6 mm base layer of Rekortan® renewable gel polyurethane, and a 4mm layer of Rekortan® self-leveling polyurethane with an embedded EPDM rubber finish that is sprayed with a one component Rekortan® aliphatic coating.

Materials include:

1. Primer
2. Black Rubber
3. Two Component Rekortan® Renewable Polyurethane
4. Two Component Rekortan® Full Pour Polyurethane
5. Manufacturer Approved EPDM Colored Rubber
6. One Component Rekortan® Aliphatic Coating



PART 3- EXECUTION

3.01 EXAMINATION

- A. The General Contractor shall verify that all asphalt / concrete paving meets all dimensional accuracy, strength, and compaction. Notify owner of any deficiencies. Recommended compaction of asphalt and sub base is 95%.
- B. The General Contractor shall verify that all concrete work meets all required tolerances and notify owner of any deficiencies. No curing compounds are allowed. The manufacturer requires that a proven heavy duty vapor barrier be installed under the concrete slab. The completed concrete substrate shall meet the industry tolerance standards of levelness ~ 1/8 in 10', and in addition, it shall meet the RH (Relative Humidity) standard level of dryness of 75% RH or less.

The completed/ cured slab shall be tested and verified to meet standards. If concrete substrate tests over 75% RH, then to protect against vapor drive/ moisture issues, the concrete shall be shot blasted and a moisture mitigation must be applied.

- C. Upon completion of paving, it is the responsibility of the paving contractor to water flood the surface with the use of a water truck. If after 30 minutes on a 70° F day, 'bird bathes' are evident in a depth more than 1/8" the paving contractor, track surfacing contractor and the owner's representative will determine the best method of correction.
- D. Entire surface shall be clean and free of all dirt, oil, grease or any other foreign residue. It is the responsibility of the General Contractor to ensure that the surface is thoroughly clean in all areas of the new and/or existing asphalt or concrete base as necessary to ensure adhesion of the track surface.
- E. Minimum curing time, prior to beginning of surfacing, is 14 days for new asphalt paving and 28 days for new concrete. No concrete curing compounds are allowed.

3.02 PRODUCT AND MATERIAL DESCRIPTION

- A. Rekortan® G-10 Fast Track, is a 2-layer, dual durometer, impermeable, 10 mm full pour system. The first application is a 6 mm, force reduction, gel layer of Rekortan® polyurethane that is made with renewable materials. The top layer is a 4mm fluid applied, self-leveling full-pour polyurethane that is embedded with EPDM rubber granules and then sprayed with an aliphatic coating.
- B. Primer: Proper Rekortan® primer to be used based on substrate (concrete or asphalt).
- C. Rubber for base layer: The rubber in the base layer shall be specifically graded rubber. It is to be dry and in sealed bags.
- D. Top Coat Colored Rubber (.5-1.5mm or .5-2mm EPDM): Must be an approved EPDM rubber. SBR rubber is not allowed in the wearing course.
- E. Full Pour Polyurethane: The full pour polyurethanes for the base layer shall be a renewable, gel polyurethane and the top layer, shall be made of a high-quality two-component Rekortan® full pour polyurethane.
- F. Aliphatic Coating: Shall be a Rekortan® pigmented, low VOC, one component aliphatic spray coating.



3.03 APPLICATION PROCEDURES

- A. The entire surface shall be clean and free of dirt, oil, grease or any other residue upon arrival of the installation team. Any dirt, etc. shall be pressure washed off the base by the general contractor.
- B. Prime entire surface area with a compatible Rekortan® polyurethane primer. Mask and protect adjacent structures as required. Primer shall dry to a tack free condition prior to beginning application. Do not allow primed surface to become contaminated by rain, dust, debris, etc.
- C. Base Layer: After primer and/or any detail applications have cured to tack-free, apply the mixed Rekortan® gel full pour, adding rubber to mixture, blend until thoroughly mixed, and apply using a Swedish Knife. Do not overwork material; this can cause excessive trapped air. Before the base full pour layer sets, blow onto the surface a fine layer of black rubber, to create a texture.
- D. Top Layer: After the base layer has cured, mix the Rekortan® full pour (A:B) coating and apply using a notched trowel or squeegee and allow to self-level. Broadcast to excess with colored EPDM granules, using a flat shovel or machine spreader ensuring all of the coating is covered.
- E. Allow top layer to cure, and reclaim all excess rubber by means of a mechanical sweeper and/ or vacuum/ blower without causing damage to the track surface.
- F. Aliphatic Top Coating: After top layer has cured, apply two coats of the Rekortan® aliphatic coating using specialized spray equipment. After initial cure of first coat, apply the second coat in an opposite direction as to the first. Allow top coating to cure before application of striping.

3.04 STRIPING

- A. All line marking paint shall be compatible and approved for the synthetic surfacing. Only an experienced track-striping specialist shall perform the line striping.

END OF SPECIFICATION – REKORTAN® G-10 Fast Track